

**ABSTRACT**

The invention provides an interconnect device for a fuel cell comprising an electrolyte, an anode and a cathode, the  
5 interconnect device comprising a channel system having a plurality of channels, each channel being closed in one end and having either an inlet side or an outlet side at the open end of the channel, each channel having an inlet side placed in alternating order with a channel having an outlet  
10 side, the inlet side of each channel placed in consecutive order on one side of the interconnect, and the outlet sides of each channel placed in consecutive order on the opposite side of the interconnect relative to the inlet side, and a second layer of channels is located on the surface of the  
15 channel system.

The invention also provides a fuel cell and a fuel cell stack in which the interconnect device is used.